

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Holger G. Gassner et al. Art Unit : Unknown
Serial No. : Examiner : Unknown
Filed :
Title : METHODS FOR ENHANCING WOUND HEALING

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

Please insert the following paragraph at page 1, line 3:

--CROSS REFERENCE TO RELATED APPLICATIONS

This application is a divisional of U.S. Serial No. 09/807,793, filed April 18, 2001, which is a 35 U.S.C. §371 application of PCT/US99/24182, which claims priority from U.S. Serial No. 60/105,688, filed October 27, 1998.--

In the claims:

Cancel claims 1-22 and 24-31.

Please amend claim 23 as follows:

23. (Amended) A composition comprising a botulinum toxin, a local anesthetic agent, and a local vasoconstrictive agent.

Please add new claims 32-43.

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--32. (new) The composition of claim 23, wherein said botulinum toxin is selected from the group consisting of botulinum toxin A, B, C, D, E, F, and G.

33. (new) The composition of claim 32, wherein said botulinum toxin is botulinum toxin A.

34. (new) The composition of claim 32, wherein said botulinum toxin is botulinum toxin B.

35. (new) The composition of claim 23, wherein said local anesthetic is lidocaine, bupivacaine, or mepivacaine.

36. (new) The composition of claim 23, wherein said local vasoconstrictive agent is epinephrine.

37. (new) A composition comprising botulinum toxin and a local anesthetic.

38. (new) The composition of claim 37, wherein said botulinum toxin is selected from the group consisting of botulinum toxin A, B, C, D, E, F, and G.

39. (new) The composition of claim 37, wherein said local anesthetic is lidocaine, bupivacaine, or mepivacaine.

40. (new) The composition of claim 37, said composition further comprising a local vasoconstrictive agent.

41. (new) The composition of claim 40, wherein said local vasoconstrictive agent is epinephrine.

42. (new) A composition comprising a botulinum toxin and a local vasoconstrictive agent.

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Parameter	Value	Unit
Initial concentration of H_2O_2	0.01	M
Initial concentration of Fe^{2+}	0.001	M
Initial concentration of H_2O	55.5	M
Temperature	25	$^\circ\text{C}$
Time	0 to 100	min
Rate of reaction	1.5×10^{-4}	$\text{M} \cdot \text{s}^{-1}$
Order of reaction	1	
Rate constant	1.5×10^{-4}	s^{-1}
Half-life	462	s
Activation energy	50.0	kJ/mol
Pre-exponential factor	1.5×10^4	s^{-1}
Equilibrium constant	1.5	
Free energy change	-11.5	kJ/mol
Entropy change	10.0	J/mol \cdot K
Enthalpy change	-11.5	kJ/mol
Heat capacity	75.0	J/mol \cdot K
Heat of formation	-285.8	kJ/mol
Heat of combustion	-285.8	kJ/mol
Heat of fusion	6.01	kJ/mol
Heat of vaporization	40.7	kJ/mol
Heat of atomization	217.0	kJ/mol
Heat of ionization	1312.0	kJ/mol
Heat of electron affinity	-784.0	kJ/mol
Heat of lattice energy	-917.4	kJ/mol
Heat of hydration	-449.0	kJ/mol
Heat of solvation	-449.0	kJ/mol
Heat of dilution	-449.0	kJ/mol
Heat of mixing	-449.0	kJ/mol
Heat of reaction	-11.5	kJ/mol
Heat of formation of H_2O	-285.8	kJ/mol
Heat of formation of Fe^{2+}	-87.6	kJ/mol
Heat of formation of H_2O_2	-136.0	kJ/mol
Heat of formation of Fe^{3+}	-147.1	kJ/mol
Heat of formation of H^+	0.0	kJ/mol
Heat of formation of OH^-	-230.0	kJ/mol
Heat of formation of Fe^{2+} (aq)	-87.6	kJ/mol
Heat of formation of Fe^{3+} (aq)	-147.1	kJ/mol
Heat of formation of H_2O_2 (aq)	-136.0	kJ/mol
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Heat of formation of Fe^{3+} (aq)	-147.1	kJ/mol
Heat of formation of H_2O_2 (aq)	-136.0	kJ

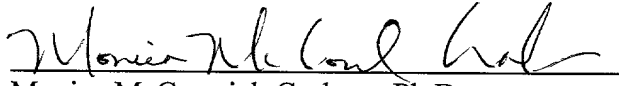
REMARKS

Applicant has canceled claims 1-22 and 24-31, and amended claim 23 to recite botulinum toxin. New claims 32-43 have been added, which relate to compositions containing botulinum toxin. Support for these claims can be found, for example, at page 3, lines 5-6, and page 9, lines 30-34, of the published PCT application. Applicant notes that claims 23 and 32-43 correspond with claims restricted to Group II of the parent application (U.S. Serial No. 09/807,793). Applicant asks that claims 23 and 32-43 be examined. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: _____

11/26/01



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Version with markings to show changes made

In the claims:

Claims 1-22 and 24-31 have been canceled.

Claim 23 has been amended as follows:

23. (Amended) A composition comprising a [chemodenervating agent] botulinum toxin,
a local anesthetic agent, and a local vasoconstrictive agent.

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